

CLAIMS

1. A reinforced flexible hose, comprising:

an interior tube for conducting either of fluids and gases, said interior tube
having an inner bore and an outer surface;

- 5 at least one layer of stainless steel threads braided about said outer surface;

a flexible polymeric covering, said covering being disposed over said stainless
steel threads, thereby protecting said threads from abrasion and
corrosion.

- 10 2. The reinforced flexible hose as described in Claim 1, wherein said interior tube is
formed of synthetic polymer material.

3. The reinforced flexible hose as described in Claim 1, wherein said interior tube is
formed of material selected from the group comprising:

- 15 ethylene-propylene-compound diene, acrylonitrile-butadiene, synthetic
resinous fluorine, nylon, thermoplastic polyester elastomer,
polyurethane, polyvinyl chloride and rubber.

4. The reinforced flexible hose as described in Claim 1, wherein the stainless steel
20 threads are grouped into distinct strands that are interwoven to form the at least one
braided layer of threads.

5. The reinforced flexible hose as described in Claim 4, includes between about two and nine stainless steel threads.

6. The reinforced flexible hose as described in Claim 1, wherein a gauge of said stainless steel threads ranges from about .002 inches to about .070 inches.

7. The reinforced flexible hose as described in Claim 1, wherein said stainless steel threads are disposed about said interior tube under tension and wherein said tension ranges from about .5 pounds to about 3 pounds.

8. The reinforced flexible hose as described in Claim 1, wherein said flexible polymeric covering is formed of transparent material.

9. The reinforced flexible hose as described in Claim 1, wherein said flexible polymeric covering is formed of material selected from the group comprising:

ethylene-propylene-compound diene, acrylonitrile-butadiene, synthetic
resinous fluorine, nylon, thermoplastic polyester elastomer, polyvinyl
chloride, polyurethane and rubber.

10. The reinforced flexible hose as described in Claim 1, wherein said flexible polymeric covering is formed to fit tightly over said stainless steel threads so as to leave substantially no gap between said threads and said covering.

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11. The reinforced flexible hose as described in Claim 1, wherein said flexible polymeric covering is formed over said stainless steel threads so that an exterior surface of said covering will have a texture related to said stainless steel threads thereunder.